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| Under the Paperwork Reduction Act of 1995. | no persons | are required to respond to a collection Application Number | p of info | mation unles | s it displays a valid OMB control n | umber. |
| TRANSMITTAL | | Filing Date | <u> </u> | 887,497 | | |
| FORM | | First Named Inventor | | 2/2001 | A | |
| | , , | Art Unit | Kyle | e P. Aus | sun | |
| (to be used for all correspondence after initial i | ling) | Examiner Name | | | | |
| | 16.6 | Attorney Docket Number | <u> </u> | | *************************************** | |
| Total Number of Pages in This Submission | 41 | Altorney Docket Number | 106 | 184 | | |
| | ENC | OSURES (Check all that | apply |) | | |
| Fee Transmittal Form | | Drawing(s) | | | er Allowance Communication Group | |
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| Affidavits/declaration(s) | | Change of Correspondence Addre | 988 | | atus Letter her Enclosure(s) (please | |
| Extension of Time Request | Terminal Disclaimer | | | entify below): | | |
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| Response to Missing Parts/ Incomplete Application | | e Action Under 37 CFI | | | | |
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| Firm Michael A. Moon | Э | | | | | THE PAYOFNIE |
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| I hereby certify that this correspondence is being fa first class mail in an envelope addressed to: Comm | icsimile tra dissioner fo | nsmitted to the USPTO or deposited w r Patents, Washington, DC 20231 on t | vith the t his date | | Postal Service with sufficient postal. 26, 2003 | ige as |
| Typed or printed Susan G. Bu | rt | | | | | |
| Signature | Dus | on D. Bur | 1 | | Date September 26, | 2003 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

| CERTIFICATE OF MAILING OR TRANSMISSION | | | | | | | |
|---|---------------|------|--------------------|--|--|--|--|
| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, Alexandría. VA 22313-1450 or transmitted by facsimile. | | | | | | | |
| Name (Print/Type) | Susan G. Burt | | | | | | |
| Signature | Duson A. Burt | Date | September 26, 2003 | | | | |

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| In re Application of |) |
|----------------------------------|------------------------------|
| Kyle P. Austin et al. |) Attorney Docket No. 106184 |
| ityle i . Addilii et al. |) Examiner: Unknown |
| Application No. 09/887,497 |) . |
| Filed: June 22, 2001 |) Group Art Unit: Unknown) |
| REACTION AND REGENERATION SYSTEM |)) |

SUPPLEMENTAL DISCLOSURE STATEMENT BEFORE MAILING OF FIRST OFFICE ACTION UNDER 37 C.F.R. §1.97(b)(3)

Commissioner for Patents Arlington, VA 22313-1450

Dear Sir:

In addition to the references cited in the Information Disclosure Statement filed with the above identified application, Applicant submits herewith documents with respect to which Applicant believes there may be a duty to disclose the existence and contents thereof. These documents are listed on Form PTO-1449 attached hereto.

All of the documents submitted herewith were cited in the International Search Report dated June 23, 2003, for the counterpart International Application No. PCT/US 02/20168.

One of the submitted documents, FR 2 160 269 A, is not in the English language. Therefore, Applicant also submits herewith the above mentioned International Search Report. Thus, the requirement under MPEP 609, III, A(3) ("Concise Explanation of Relevance for Non-English Language Information") is satisfied for FR 2 160 269 A.

Appln. No. 09/887,497 Attorney Docket 106184 The filing of this supplemental information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), nor as an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this supplemental information disclosure statement shall not be construed as an admission in any manner.

A copy of the above-mentioned International Search Report is attached hereto. Copies of all listed documents listed therein are also attached hereto, with the exception of U.S. patents and published patent applications pursuant to the July 11, 2003 notice entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003" signed by Stephen G. Kunin, Deputy Commissioner for Patent Examination Policy.

Initialing of each document after its consideration by the Examiner is now respectfully requested in this matter.

Respectfully submitted,

UOP LLC

Michael A. Moore Attorney for Applicant

Reg. No. 41,203

Phone: (847) 391-2948 Fax: (847) 391-2387

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| | ATTY. DOCKET NO.: 106184 | APPLICATION NO.; 09/887,497 |
| SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT | APPLICANT: Kyle P. Austin et al. | |
| (Use several sheets if necessary) | FILING DATE: 06/22/2001 | GROUP ART UNIT: Unknown |

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| | DOCUMENT NUMBER | DATE | COUNTRY | INTERNATIONAL CLASSIFICATION | TRANSL YE: | ATION NO |
|--|-----------------|---------------|---------|------------------------------|---------------|-------------|
| | FR 2 160 269 A | June 29, 1973 | France | C 10 g 39/00//B 01 j 11/00 | No | |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | |
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Appln. No. 09/887,497 Attorney Docket 106184

PATENT COOPERATION TREATY

| From the INTERNATIONAL SEA | RCHING AUTHORITY | MAM PCT | | | | | |
|--|---|---|--|--|--|--|--|
| NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH FEPORT OR THE DECLARATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH FEPORT OR THE DECLARATION DECKETED FOR UNITED STATES OF AMERICA NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH FEPORT OR THE I | | | | | | | |
| | JUN 2 3 2003 | Date of mailing day/month/year) 23/06/2003 | | | | | |
| Applicant's or agent's file reference 106184(2422) | UOP Patent Dept | FOR FURTHER ACTION See paragraphs 1 and 4 below | | | | | |
| International application No. PCT/US 02/20168 | | International filing date (day/month/year) 19/06/2002 | | | | | |
| Applicant UOP LLC | | | | | | | |
| Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international Application (see Rule 46): When? The time limit for filling such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. 2. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. 3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the International application, or of the profity claim, must reach the international Bureau as provided in Rules 90bs.1 and 90bs.3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). | | | | | | | |
| wishes to postpone the entry into the national phase until 30 months from the priority date (In some Offices even later). Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II. | | | | | | | |
| Name and mailing address of the in European Patent Office NL-2280 HV Rijswijk Tel. (+31-70) 340-204(Fax: (+31-70) 340-301 | , P.B. 5818 Patentiaan 2), Tx. 31 651 epo nl, | Authorized officer Nadine Klop | | | | | |

Form PCT/ISA/220 (July 1998)

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For monodetailed information, see also the PCT Applicant's Guide, a publication of WIPO.

in these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the internetional application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amondments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents mustimay accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended daims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added," or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 reptaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 48.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 1941)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the latter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Flaterence to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | FOR FURTHER see Notificatio | n of Transmittal of International Search Report A/220) as well as, where applicable, Item 5 below. |
|---|--|---|
| 106184(2422) | ACTION | |
| International application No. | International filing date (day/month/year) | (Earliest) Priority Date (day/month/year) |
| PCT/US 02/20168 | 19/06/2002 | 22/06/200 1. |
| Applicant | | |
| UOP LLC | | |
| This International Search Report has been according to Article 18. A copy is being tra | prepared by this international Searching Ansmitted to the international Bureau. | Authority and is transmitted to the applicant |
| This international Search Report consists of X It is also accompanied by a | of a total of sheets. a copy of each prior art document cited in the | this report. |
| Basis of the report a. With regard to the language, the is language in which it was filed, unle | nternational search was carried out on the ess otherwise indicated under this item. | basis of the international application in the |
| the international search was Authority (Rule 23.1(b)). | as carried out on the basis of a translation | of the international application furnished to this |
| | d/or amino acid sequence disclosed in the sequence listing: | e international application, the international search |
| contained in the internation | nal application in written form. | |
| filed together with the inter | mational application in computer readable | form. |
| furnished subsequently to | this Authority in written form. | |
| furnished subsequently to | this Authority in computer readble form. | |
| | sequently furnished written sequence listing filed has been furnished. | ng does not go beyond the disclosur∋ in the |
| the statement that the info furnished | rmation recorded in computer readable for | rm is identical to the written sequence listing has been |
| | nd unsearchable (See Box I). | |
| 3. Unity of invention is laci | king (see Box II). | |
| 4. With regard to the title, | | |
| X the text is approved as su | bmitted by the applicant. | |
| the text has been establis | hed by this Authority to read as follows: | |
| E Mills accorded to the character of | | |
| 5. With regard to the abstract, | hmitted by the applicant | |
| the text is approved as su the text has been establis within one month from the | hed, according to Rule 38.2(b), by this Aut | thority as it appears in Box III. The applicant may, a report, submit comments to this Authority. |
| 6. The figure of the drawings to be publ | ished with the abstract is Figure No. | 1 |
| as suggested by the appli | cant. | None of the figures. |
| because the applicant fail | ed to suggest a figure. | |
| X because this figure better | characterizes the invention. | |

Form PCT/ISA/210 (first sheet) (July 1998)

international Application No

PCT/US 02/20168 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C10G35/12 B01J8/08 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C10G B01J C19G IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to daim No. Category ° Citation of document, with indication, where appropriate, of the relevant passages 1-10 US 3 647 680 A (GREENWOOD ARTHUR R ET AL) Α 7 March 1972 (1972-03-07) cited in the application US 4 615 792 A (GREENWOOD ARTHUR R) A 1-10 7 October 1986 (1986-10-07) claim 1; figure 1 US 4 961 907 A (HERBST JOSEPH A ET AL) 9 October 1990 (1990-10-09) claim 1; figure 1 A 1 - 10US 4 048 057 A (MURPHY JAMES R) 1 - 1013 September 1977 (1977-09-13) figure 1 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled *P* document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 12 June 2003 23/06/2003

Form PCT/(SA/210 (second sheet) (July 1992)

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Name and mailing address of the ISA

Fax: (+31~70) 340-3016

European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040. Tx. 31 651 epo ni,

Authorized officer

Deurinck, P

International Application No PCT/US 02/20168

| A FR 2 160 269 A (INST FRANCAIS DU PETROL) 29 June 1973 (1973-06-29) figure 1 1-10 | | ion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication where appropriate, of the relevant passages | Relevant to claim No. |
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